

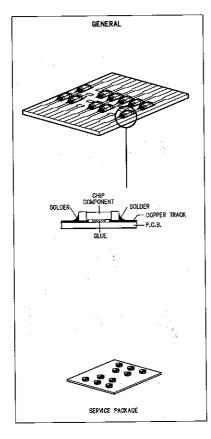
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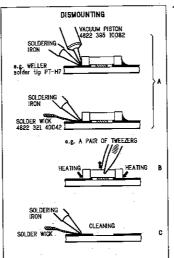
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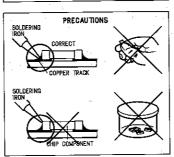




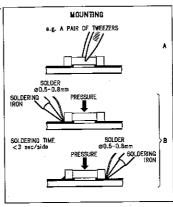
#### HANDLING CHIP COMPONENTS







**ESD** 



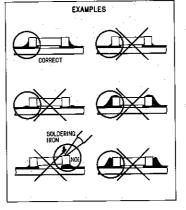
CC

3

4

5

6



## **(GB) WARNING**

All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD). Careless handling during

repair can reduce life drastically.

When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wap with resistance. Keep components and tools at this potential.



F ATTENTION
Tous les IC et beaucoup d'autres semi-conducteurs sont Tous les IC et beaucoup d autres semi-conducteurs sont sensibles aux décharges statiques (ESD). Leur longévite pourrait être considérablement écourtée par le fait qu'aucune précaution nést prise à leur manipulation. Lors de réparations, s'assurer de bien être relié au même

potentiel que la masse de l'appareil et enfileer le bracelet serti d'une résistance de sécurité.

Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

Anti-static table matlarge1200x650x1 25mm small 600x650x1.25mm

Anti-static wrist band

Connection box (1MOhm) Extendible cable (to connect wrist band to conn. box)

Connecting cable (to connect table mat to conn. box) Earth cable (to connect any product to mat or box) Complete kit ESD3 (combining all above products) Wristband tester

D WARNUNG
Alle iCs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD). Unsorgfältige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren.

Sorgen Sie dafür, dab sie im Reparaturfall über ein Puls-armband mit Widerstand mit dem Massepotential des

Gerätes verbunden sind. Halten Sie Bautelle und Hilfsmittel ebenfalls auf diesem

(GB)

Safety regulations require that the set be restored to its originial condition and that parts which are identical with those specified be used.

Safety components are marked by those symbol. 🛕

S Varning!
Osynlig laserstrålning när apparaten är öppnad och spärren är urkopplad. Betrakta ej strålen.

#### (DK) Advarsel!

Usynlig laserstråling ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsaettelse for stråling.

#### (SF) Varoitus!

Avatussa laitteessa ja suojalukituksen ohitettaessa olet alttiina näkymättömälle laserisäteilylle. Älä katso laserisäteilylle. Ālā

#### NL WAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD).

Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen vermindern. Zorg ervoor dat u tijdens reparatie via een polsband met wererstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.

Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statische (ESD).

La loro longevità potrebbe essere fortemente ridatta in caso di non osservazione della più grande cauzione alla loro manipolazione. Durante le riparationi occorre quindi essere collegato allo stesso potenziale che quello della massa delapparecchio tramite un braccialetto a resistenza.

Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

### (GB) WARNING

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

## F ATTENTION

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

D WARNUNG
Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originaizustand des Gerätes darf nicht verändert werden. Für Reparaturen sind Original-ersatzteile zu verwenden.

#### (NL) WAARSCHUWING

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkeliijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden

#### ( ) AVVERTIMENTO

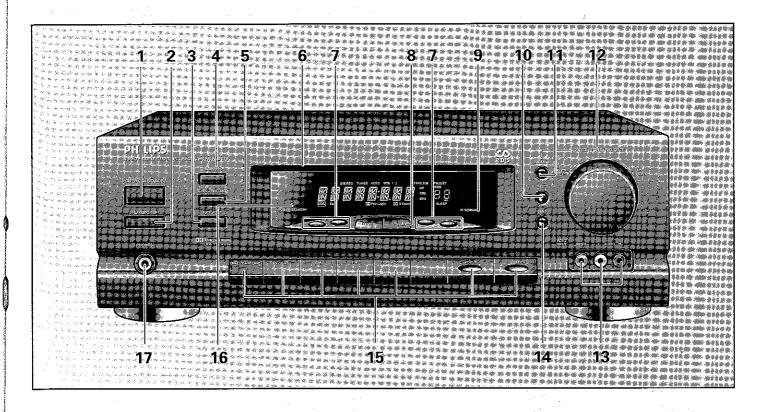
Le norme di sicurezza estigono che l'apparecchio venga rimesso nelle condizioni orginali e che siano utilizzati i pezzi di ricambiago identici a quelli specificati.

After servicing and before returning the set to customer perform a leakage current measurement test from all exposed metal parts to earth ground, to assure no shock

The leakage current must not exceed 0.5mA.

F
"Pour votre sécurite, ces documents doivent être utilisés par des spécialistes agrées, seuls habilités à réparer votre appareil en panne".

#### **CONTROLS - FRONT**



#### **FRONT**

#### 1 POWER ON/STANDBY

For switching on to last mode and for switching off.

#### 2 SPEAKERS ON/OFF

For switching the speakers connected to the FRONT SPEAKERS terminals on and off.

#### **3 PROGRAM**

For storing preset stations.

#### 4 SURROUND

For selecting the surround modes:

#### DOLBY PRO LOGIC, DOLBY 3 STEREO, OFF.

Dolby Surround manufactured under license from Dolby Laboratories Licensing Corporation. 'Dolby' and the double D symbol DII are trademarks of Dolby Laboratories Licensing Corporation.

#### 5 TUNING/PRESET

For selecting the frequency or channel mode.

## 6 DISPLAY

Informs, you about the functioning of the receiver.

#### 7 RDS MODE CONTROLS (for FM only)

**DISPLAY button:** For changing the display mode **RDS button:** To turn the RDS mode ON or OFF

**AF button:** To tune automatically to the frequency with the strongest signal for optimum reception of a

RDS station

**PTY button:** To select the RDS station broadcasting the desired programme type (PTY)

### 8 UP/DOWN

- For adjusting the station frequency.
- For selecting the next or previous tuner preset.

#### 9 I(nfra) R(ed) SENSOR

Infrared remote control eye for receiving signals from the remote control.

#### 10 TREBLE

For adjusting the high tones (use together with the VOLUME/TONE/BALANCE control 12).

#### 11 BALANCE

For adjusting the balance of the volume between the left and right channels (use together with the VOLUME/TONE/BALANCE control **12**).

#### 12 VOLUME/TONE/BALANCE

- VOLUME For adjusting the volume.
- TONE For adjusting the high tones and the bass tones (use together with the TREBLE 10 and BASS 14 controls).
- BALANCE For adjusting the balance of the volume between the left and right channels (use together with BALANCE button 11).

#### 13 VCR 2 AUDIO/VIDEO INPUT

Connections for an extra VCR or camcorder (VIDEO) or an extra audio source (AUDIO).

#### 14BASS

For adjusting the bass tones (use together with the VOLUME/TONE/BALANCE control 12).

#### **15 SOURCE SELECTION KEYS**

For selecting the required audio or video source.

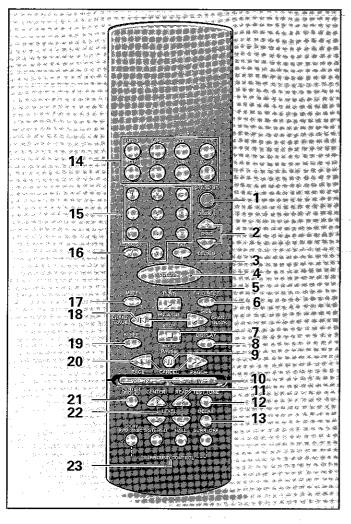
#### 16 POWER STANDBY LED

- Lights up when in stand by mode
- Flashes when MUTE is active

#### 17 PHONES

For connecting headphones.

### **CONTROLS - REMOTE CONTROL**



#### **AMPLIFIER**

- 1 STANDBY for switching to standby
- 4 VOLUME+VOLUME- for adjusting the volume
- 14 Source selectors
- 17 MUTE for muting the volume.
- **19 SLEEP** for setting a time period after which the system will automatically be switched to standby

#### Surround processor

- 11 REAR LEVEL +/- for adjusting the rear level (only in Dolby Pro Logic mode)
- 12 TEST TONE for checking the output level of the front, centre and rear speakers
- 13 DELAY for adjusting the delay time of the rear channel (has no influence on the FR 732 for the delay time is fixed).
- **21 CENTER MODE** for selecting the desired centre mode when in Dolby Pro Logic or Dolby 3 Stereo mode
- 22 CENTER LEVEL +/- for adjusting the centre level (only in normal mode or wide mode)

### 23 SURROUND CONTROL

- DD **PRO LOGIC, 3 STEREO** for selecting the different surround modes (the HALL button has no influence on the FR 732).
- SURR(ound) OFF for switching the surround mode off

#### **TUNER**

- STANDBY for switching to standby
- **FR**(equency) **DIRECT** for direct tuning to the station frequency
- DISPLAY:
- Indicates the frequency, the signal level, the Programme Service name, the Program Type and the clock time in RDS mode.
- indicates the frequency, the signal level in FM non-RDS mode

- 15 0-9 digit keys for selecting preset stations and frequency direct mode
- 16 MONO/ST for mono/stereo selection
- **18 CHANNEL/TRACK** next ► or previous ► preset station
- 20 ← For tuning up and down

#### **TAPE**

- 1 STANDBY for switching to standby
- 2 DECK A/DECK B for selecting deck A or B
- 5 PLAY ► for starting play
- 6 SIDE for selecting tape side A or B
- 7 STOP - for stopping recording/play
- 9 PAUSE II for interrupting recording/play
- 18 CHANNEL/TRACK next ► or previous I track
- 20 → for winding the tape

#### VCR 1 and VCR 2

- 1 STANDBY for switching to standby
- 5 PLAY ► for starting play
- **7 STOP** – for stopping recording/play
- 9 PAUSE II for interrupting recording/play
- 150-9 digit keys for selecting stations
- 18 CHANNEL/TRACK next ► or previous ► station
- 20 ◀◀ ▶▶ for winding the tape

#### C D and V-CD/CD-i

- 1 STANDBY for switching to standby
- 2 DISC + (CD changer only) for disc selection
- 5 PLAY ► for starting play
- 7 STOP - for stopping recording/play/clearing a programme
- 8 **DISPLAY** for displaying the elapsed playing time and the remaining playing time during playback of a (V-) CD.
- 9 PAUSE II for interrupting recording/play
- 150-9 digit keys for track selection
- 18 CHANNEL/TRACK next ►I or previous I track

### ΤV

- 1 STANDBY for switching to standby
- 3 TXT for switching teletext on and off
- 5 PLAY ► enlarge picture
- 7 STOP - hold picture
- 8 DISPLAY for selecting on screen display
- 9 CANCEL cancel teletext
- 10 VOLUME TV for adjusting the volume
- 150-9 digit keys for selecting preset stations
- **16-/--** 1 or 2 digit entry
- 18 CHANNEL/TRACK next ►I or previous I channel
- 20 PAGE + /PAGE - next or previous teletext page

### DCC

- 1 STANDBY for switching to standby
- 2 DECK A/DECK B for selecting deck A or B
- 5 PLAY ► for starting play
- 6 SIDE for selecting the tape travel direction
- 7 STOP – for stopping recording/play
- 8 **DISPLAY** for displaying character information (e.g. title names etc.)
- 9 PAUSE II for interrupting recording/play
- 150-9 digit keys for track selection
- 18 CHANNEL/TRACK next ➤I or previous I track
- 20 ◀◀ ▶▶ for winding the tape

### **INSTALLATION**

You only have to install your system once. Please make the following connections (whenever applicable).

#### NOTES!

# SWITCH OFF THE RECEIVER BEFORE MAKING ANY CONNECTIONS.

- Do not connect the set to the mains when making connections.
- Be sure to connect the white plugs to the L (left) and the red plugs to the R (right) sockets when making connections.

Important note for connecting equipment that does not have PLAY/REC markings on the input and output sockets:

FR732 Device to be connected e.g. cassette deck.

 $\begin{array}{ccc} \mathsf{PLAY} \to & & \mathsf{PLAY} \ \mathsf{or} \ \mathsf{OUT} \\ \mathsf{REC} \to & & \mathsf{REC} \ \mathsf{or} \ \mathsf{IN} \end{array}$ 

#### CONNECTIONS

#### A FM (75 Ω)

The FM (75  $\Omega$ ) socket is used for connection to the Community or Cable Antenna System or to a roof-mounted FM antenna with an impedance of 75 ohms. If none of these are available, you may use the wire supplied for nearby stations (reception could be poor).

#### B GND/AM

For AM reception, connect the supplied wires to the GND and AM antenna terminals (one wire to GND and one wire to the AM terminal) and position the antenna for best reception.

**Note**: Do **not** place the AM loop antenna on the unit, as this unit employs a computing device which could cause interference.

#### C AUDIO IN/OUT

- CD/V-CD/CD-i IN input sockets for connecting a CD (Compact Disc) player or a V-CD/CD-i player.
  - Connect these sockets to the OUTPUT sockets of the (V) CD player.
- TV/AUX IN input sockets for connecting the sound channel of a TV set or any other source you want to hear; an additional CD player, a cassette deck, a VCR or a turntable with ceramic cartridge etc.
- TAPE/DCC PLAY/REC input and output sockets for connecting a cassette deck.
  - Connect the PLAY sockets to the LINE OUTPUT sockets of the cassette deck.

- Connect the REC sockets to the LINE INPUT sockets of the cassette deck.
- VCR 1 PLAY/REC input sockets for connecting the sound channel of a video recorder and output sockets for extra sound recording equipment (e.g. a HiFi stereo video recorder, or cassette, or tape deck).
  - Connect the PLAY sockets to the OUTPUT sockets of the VCR.
  - Connect the REC sockets to the INPUT sockets of the VCR

#### D VIDEO IN/OUT

- VCR 1 IN/OUT input and output sockets for connecting the video input and output of a video recorder
- MONI/OUT output sockets for connecting to the video input of a video TV set.

#### **E SURROUND SPEAKERS**

Terminals for connecting a pair of surround speakers, impedance of 8  $\Omega$  each, to obtain a surround sound effect **NOTE**: Always connect **two** speakers to these terminals

#### **F CENTRE SPEAKER**

Terminals for connecting a centre speaker.

#### **G FRONT SPEAKERS A/B**

Terminals for connecting two pairs of speakers, impedance 6-16 ohms (L = left, R = right).

 One of the wires of the loudspeaker cables is marked with a colour or rib. Connect the marked wire to the red terminal, the non-marked wire to the black one.

#### **H SYSTEM CONTROL**

**RC-5** (coloured orange) – remote-control input/output socket for connection to the corresponding RC-5 socket of a CD (Compact Disc) player or a remote control receiver etc... Connect the RC-5 socket to the RC-5 socket of the external equipment that uses the RC-5 remote control system. This socket has been added to maintain compatibility with other Philips Audio equipment.

#### POWER

#### I SUBWOOFER OUT

For use with an externally powered subwoofer (not supplied) For details, please refer to the subwoofer's owners manual.

#### MAINS LEAD

For connecting the set to the mains.

#### K MAINS OUTLETS

Switched mains output for connecting mains plugs from various units such as cassette deck, CD player, etc. (maximum capacity is 100 W).

Power supplied through this outlet is turned on and off by the POWER button of the receiver and STANDBY button on the remote control.

# **CONNECTING HEADPHONES**

 Connect headphones with a 6,3 mm plug to the PHONES socket.

 Inserting the plug will not disconnect the loudspeakers.

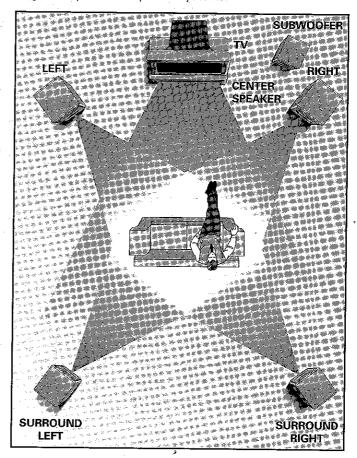


## SPEAKER POSITIONING

To get the best surround sound effect in your home, place the speakers as shown below.

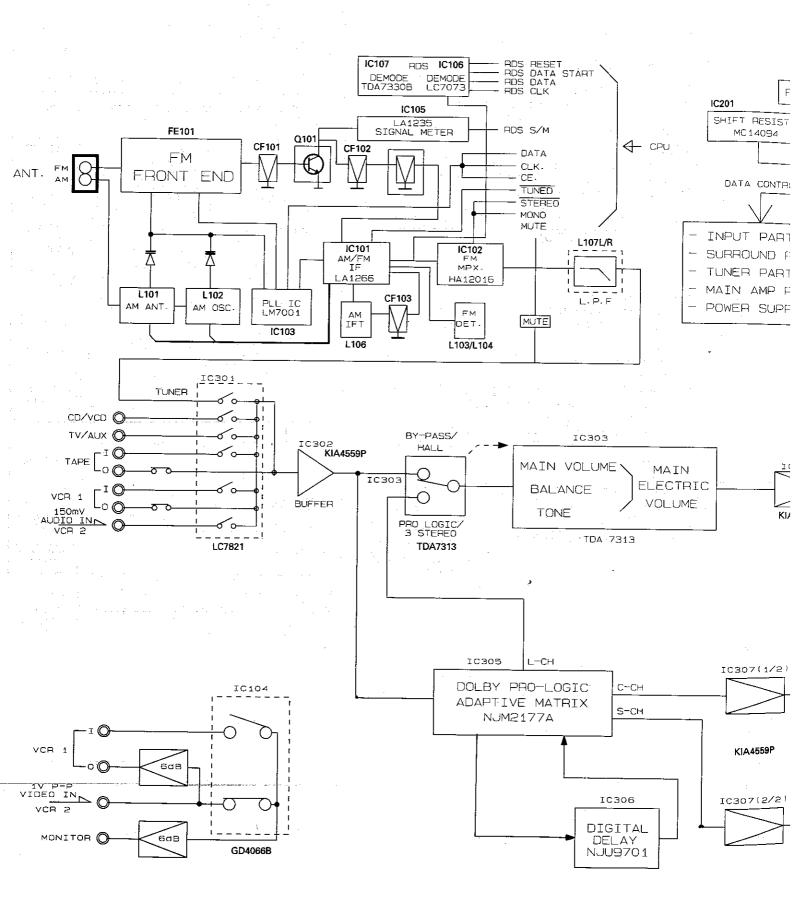
The left and right speakers should be about 1 m. (40") from the TV set.

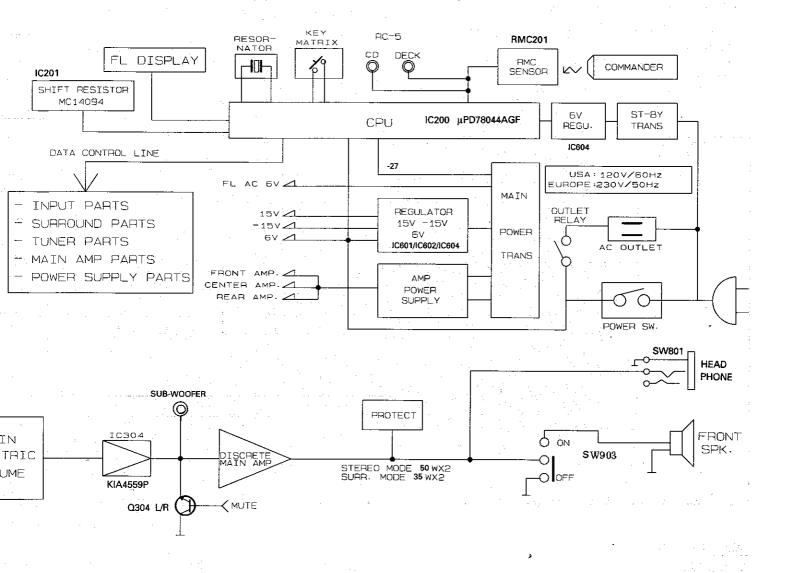
The centre speaker should be above or below the TV set. The rear speakers should be placed at normal listening ear level. **Note:** to avoid interference with the TV picture, use only magnetically shielded speaker systems.

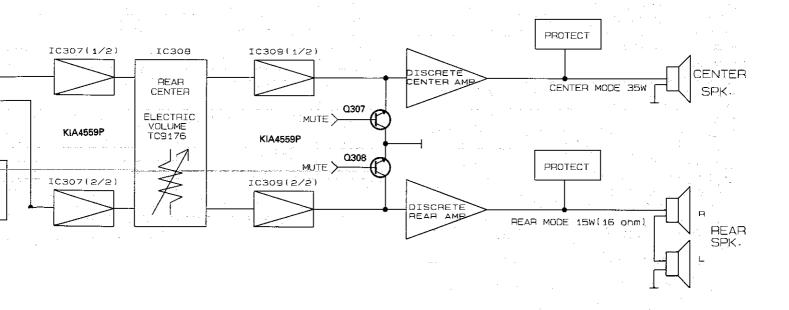


After making all necessary connections (some may not be applicable for your system set-up), your system is ready for use. In the next chapter we will describe how to operate your FR 732 receiver.

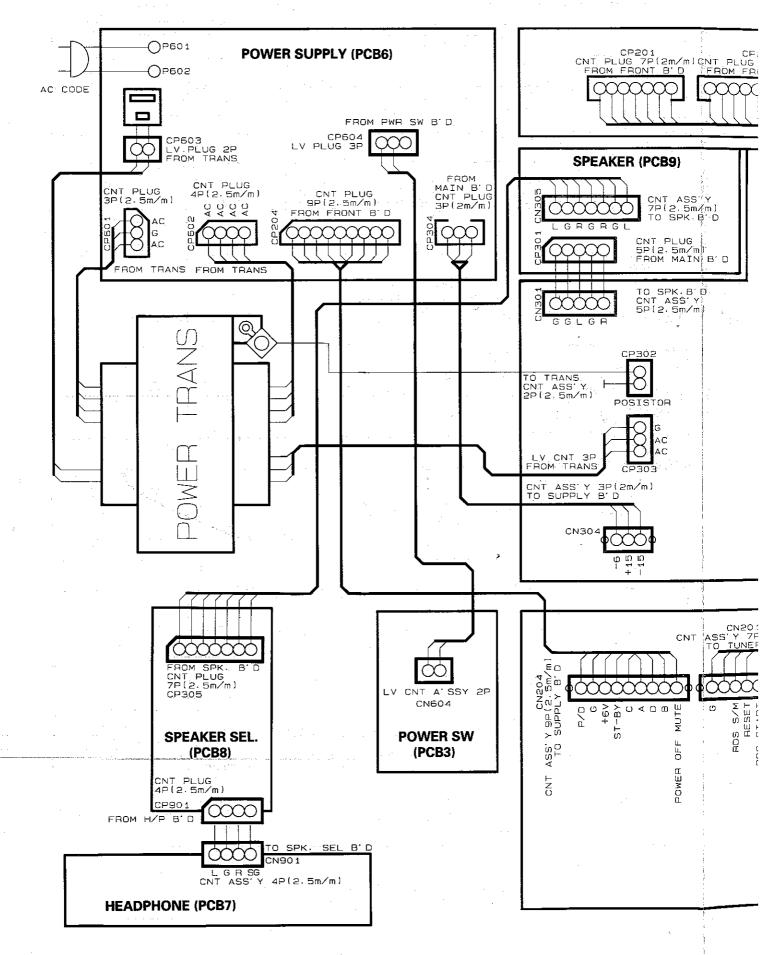
## **BLOCK DIAGRAM**

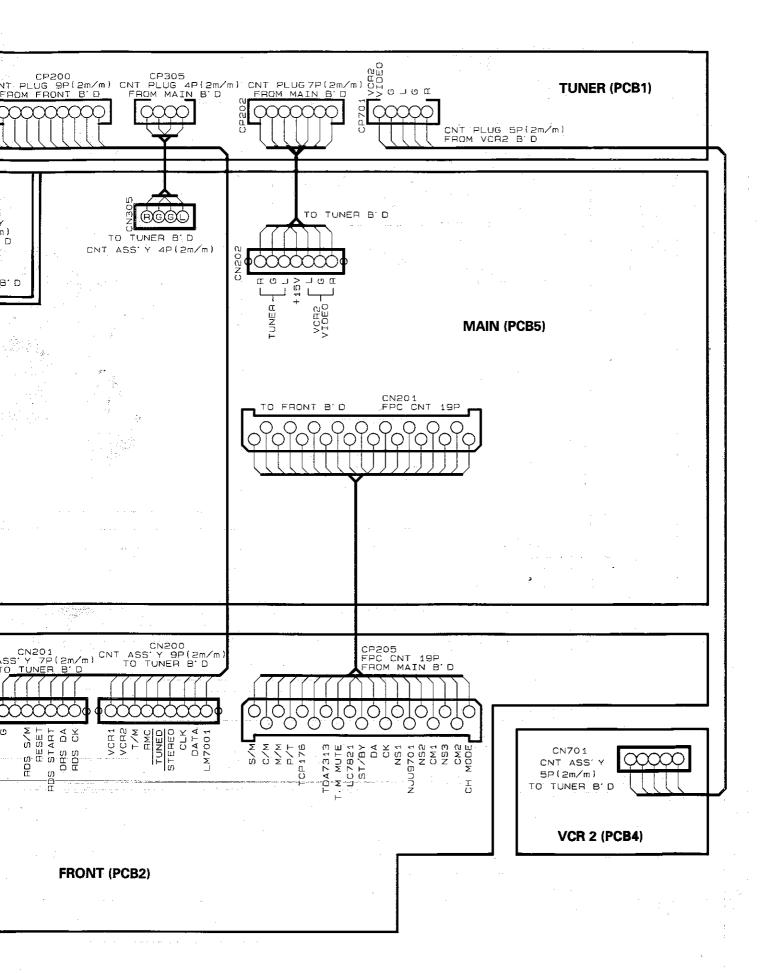






# **WIRING DIAGRAM**





#### **SPECIFICATIONS**

#### **GENERAL**

Main voltage 230V Main frequency 50Hz

Battery (remote control) 3V (R03G x 6)

Power Consumption : 110W

Dimension (W x H x D) : 435 x 125 x 350 mm

Weight : 8.6 kg

#### **AMPLIFIER**

RMS Output power Main : 2 x 50 W

: 35 W Center : 2 x 15W Rear

Main: 2x80hm

Speaker impedance

Center : 8 Ohm

Rear : 2 x 16 Ohm

Main : 20 Hz - 40 KHz Frequency response

Center (PRO-LOGIC) : 50 Hz - 15 KHz

Rear (PRO-LOGIC) : 100 HZ - 6 KHz

Bass at 100Hz 12 dB Tone control

Treble at 10KHz 12 dB

1KHz : 35 dB Channel seperation

200mV CD/TAPE sensitivity

### TUNER - FM section

: 87.5 -108MHz Tuning range : 10.7MHz IF frequency

Sensitivity : < 20 dBf at 26 dB S/N

> 40 dB at 600 Khz B.W. Selectivity > 70 dB

IF rejection Image rejection > 70 dB : > 34 dBf Auto search stop sensitivity 1 KHz : > 28 dB Srereo seperation

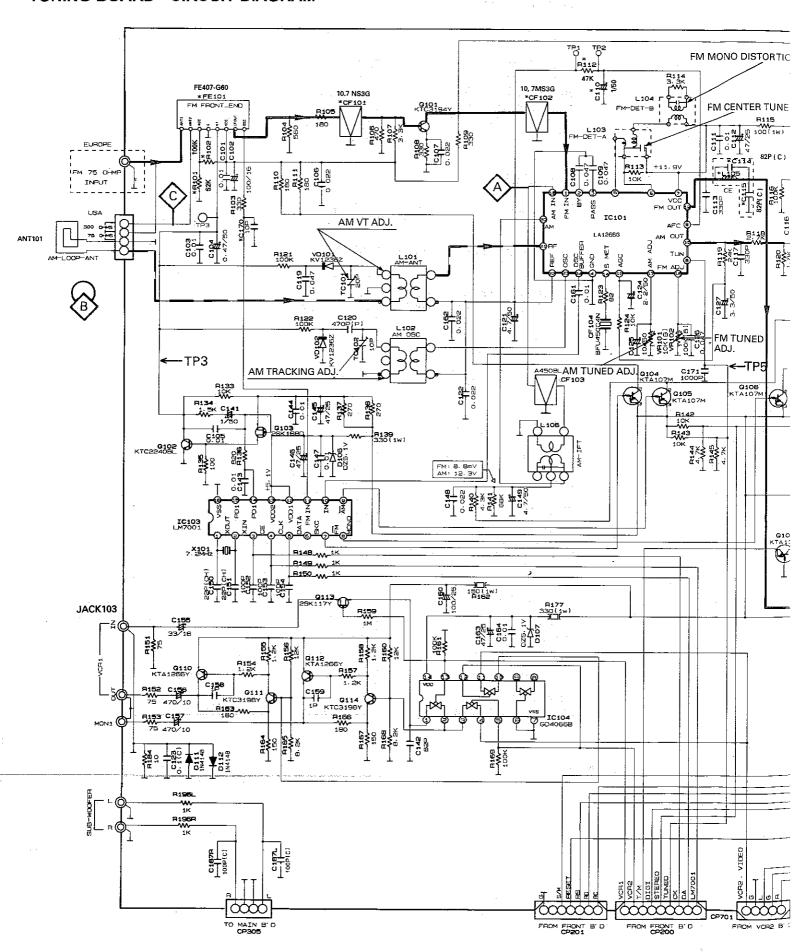
#### **TUNER - AM section**

: 522 - 1611KHz Tuning range IF frequency 450 KHz

< 1000 µV/m at 20dB S/N Sensitivity

> 20 dB Selectivity IF rejection > 30 dB Image rejection > 28 dB : < 1585 µV/m Auto search stop sensitivity

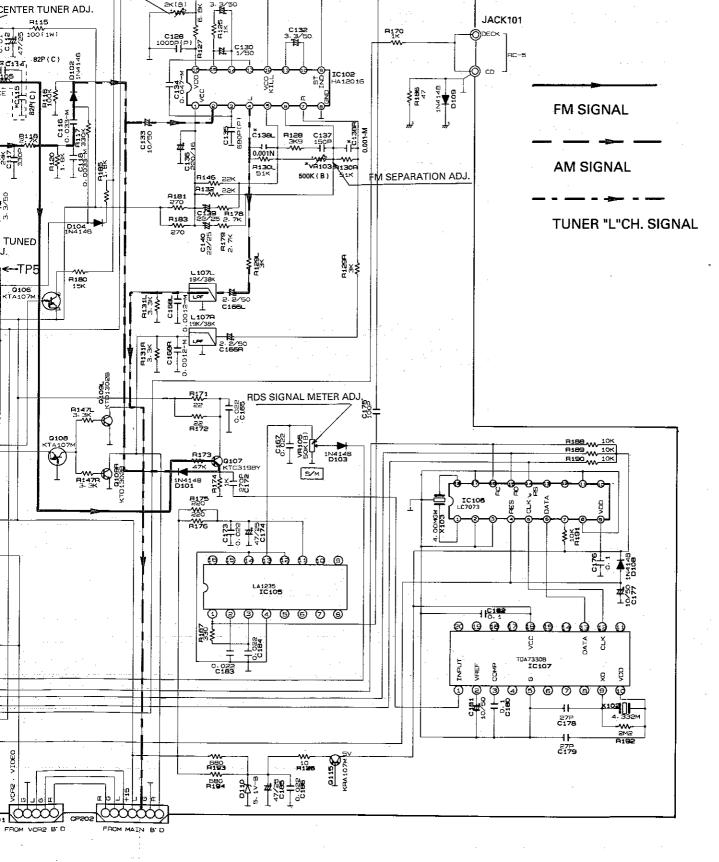
## **TUNING BOARD - CIRCUIT DIAGRAM**





A٨ ΑN MW TUN VOL-MW RF SEN MW AUTO 1 SENSI FΜ FM FΜ FΜ AUTO -SENSI F۷ ۷C SEPER

> \* Mod. # 75KHz



NO DISTORTION ADJ.

VCO ADJ.

# **RADIO ALIGNMENT**

	· · ·					
	⊛——	$\Diamond$	*	Ø	$\Diamond$	
AM IF						
АМ	450KHz	$\Diamond$	999KHz	L106	TAPE OUT	max.
AM RF						
MW (AM) * TUNING	522KHz	B	522KHz	L102	- TP3	DC voltage 1.0 - 1.2V
VOLTAGE	1611KHz	<b>*</b>	1611KHz	TC102	1173	DC voltage 8.5 - 9.0V
MW (AM)*	603KHz	B	603KHz	L101	TAPE	max.
RF SENSITIVITY	1404KHz		1404KHz	TC101	OUT	max.
MW (AM) AUTO TUNING SENSITIVITY	999KHz	B	999KHz	VR101	TAPE OUT	AM SSG Output level of 800µV/m
FM IF					<u>.</u>	
FM #	98.0MHz		98.0MHz	L103	TP1/TP2 (R112)	Zero voltage
1 101 #	9.0. 0 W 12	$\langle \cdot \rangle$	90.0W112	L104	TAPE OUT	Min. distortion
FM RF						
FM # AUTO TUNING SENSITIVITY	98.0MHz	B	98.0MHz	VR102	TAPE OUT	FM SSG Output level of 7µV/m
FM MPX						
VCO	98MHz Pilot off	<b>⟨</b> c⟩	98MHz	VR804	TP4	Frequency 76 ± 0.2KHz
SEPERATION	98MHz (L-channel)	$\langle  \rangle$	98MHz	VP465	TAPE OUT R-ch	Seperation
	98MHz (R-channel)		98MHz	VR103	TAPE OUT L-ch	Betten than 28dB

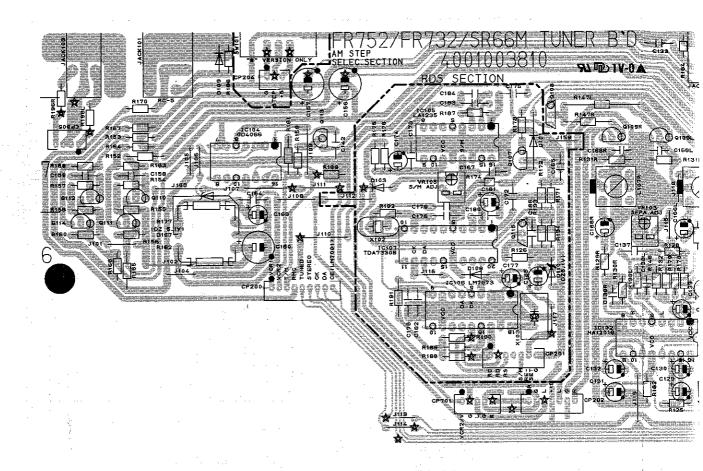
<sup>\*</sup> Mod. 1KHz 30%

Repeat

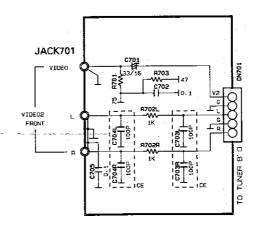
<sup># 75</sup>KHz dev.

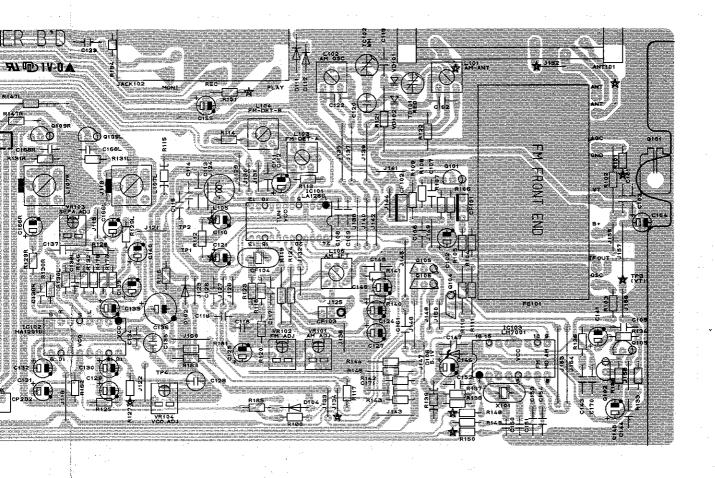
<sup>&</sup>quot;Bei notwendigem Abgleich ist das Gerät auf die gesetzlich vorgeschriebenen Eckfrequenzen abzugleichen".

# TUNING BOARD - LAYOUT DIAGRAM

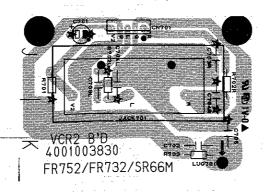


# VCR2 BOARD - CIRCUIT DIAGRAM

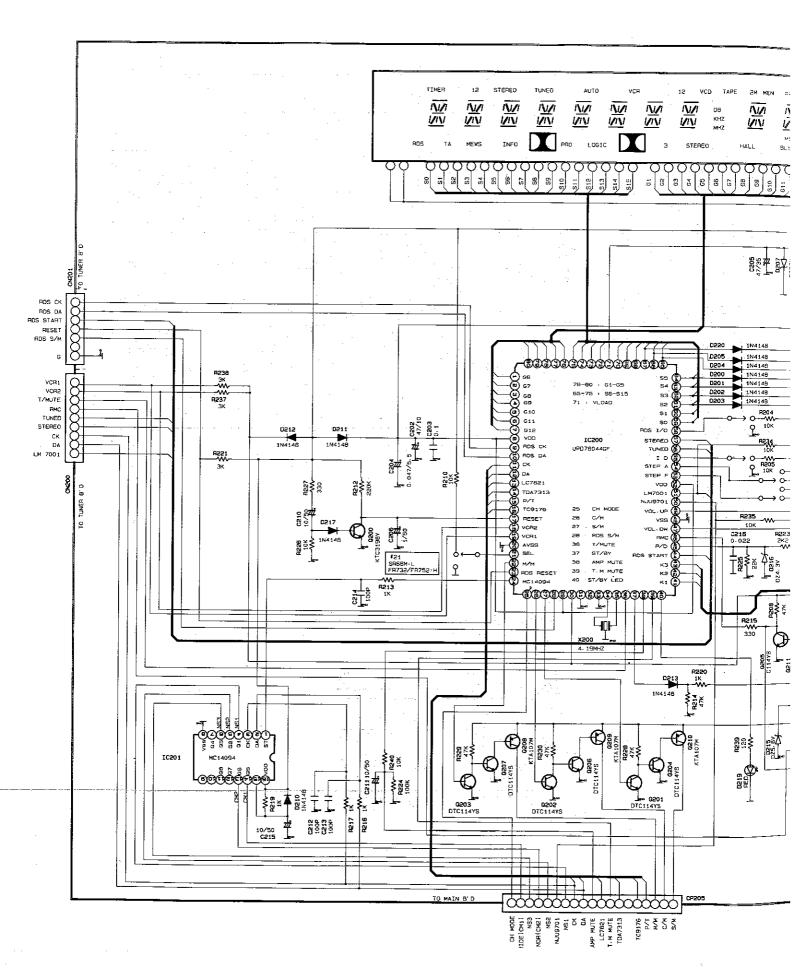


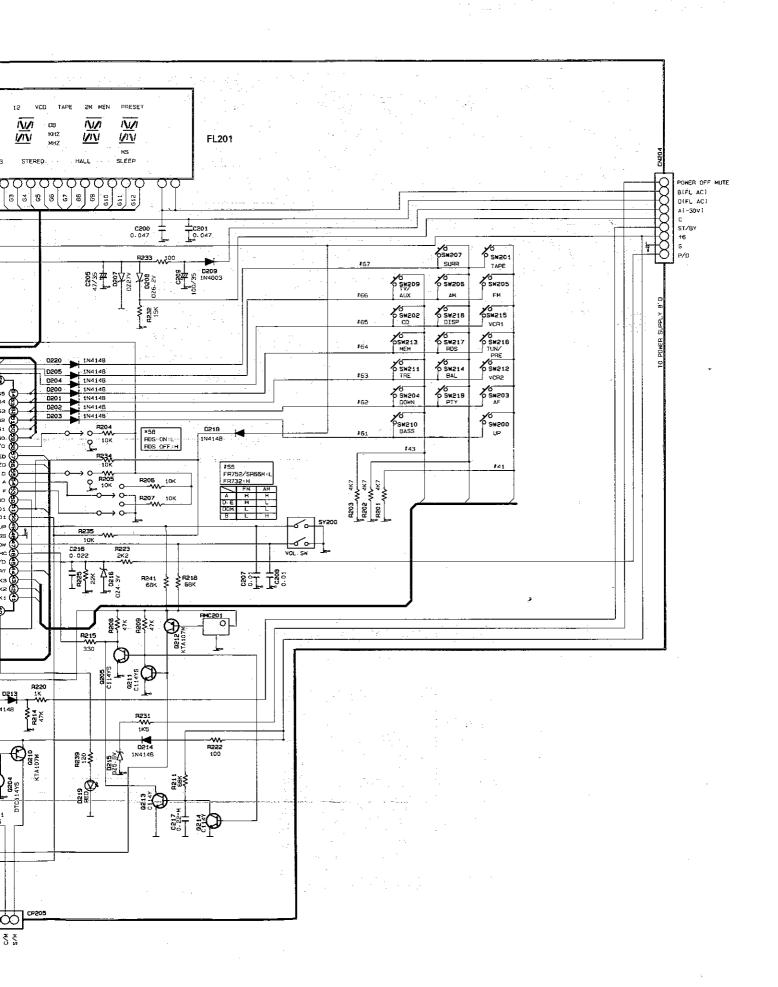


# **VCR2 BOARD - LAYOUT DIAGRAM**

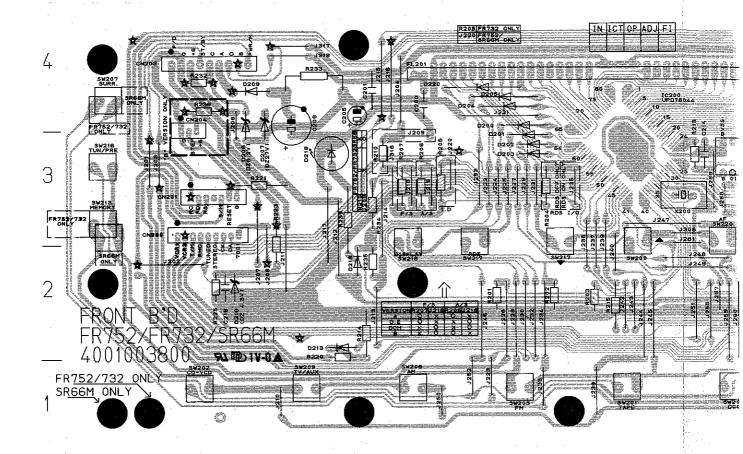


## FRONT BOARD - CIRCUIT DIAGRAM

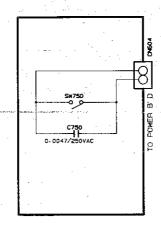


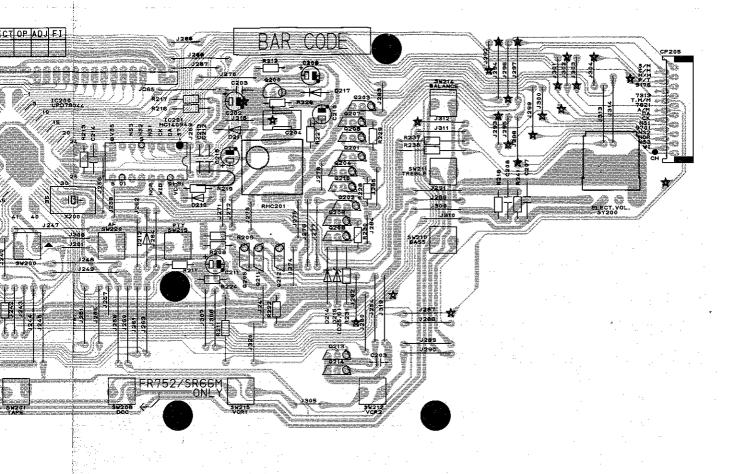


# FRONT BOARD - LAYOUT DIAGRAM

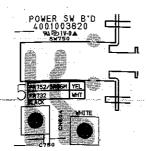


# POWER SWITCH BOARD - CIRCUIT DIAGRAM

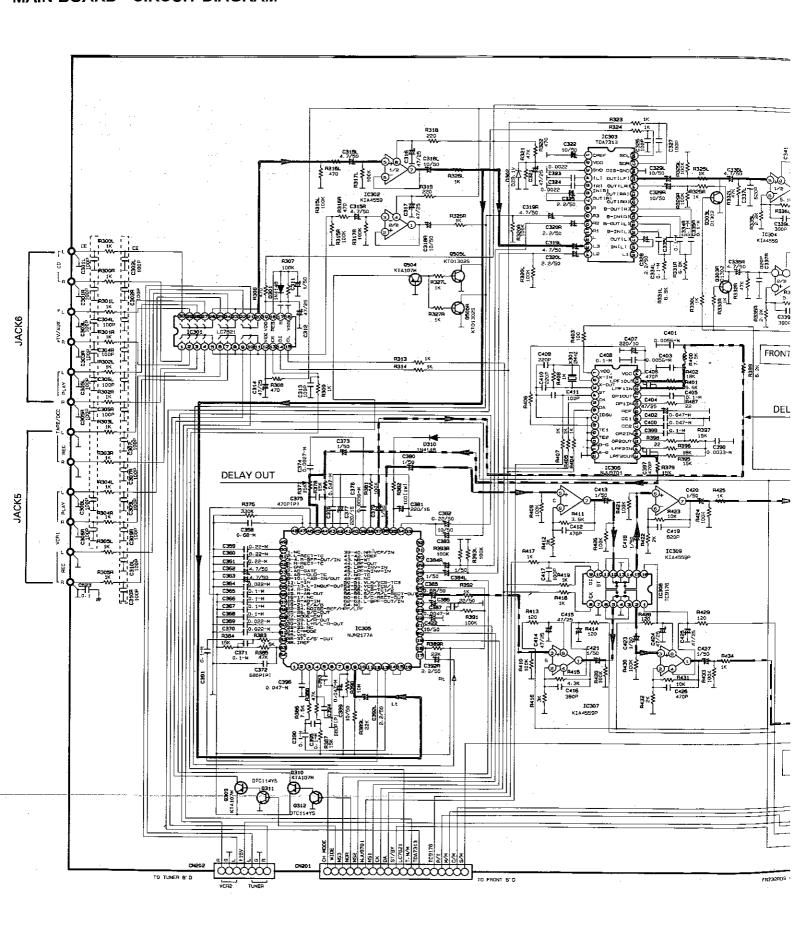


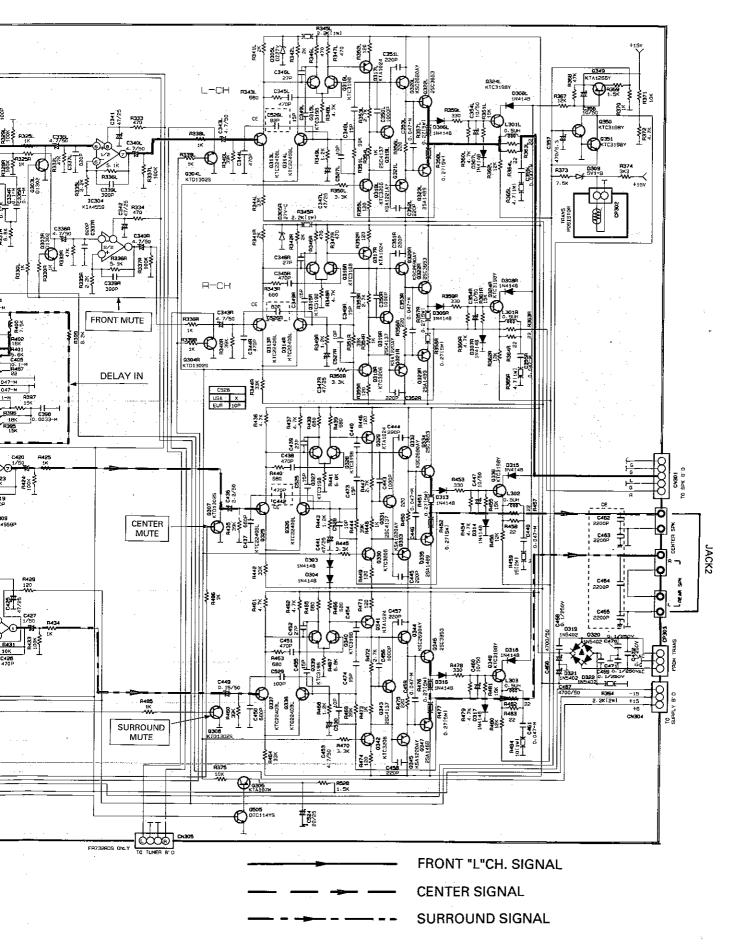


# POWER SWITCH BOARD - LAYOUT DIAGRAM

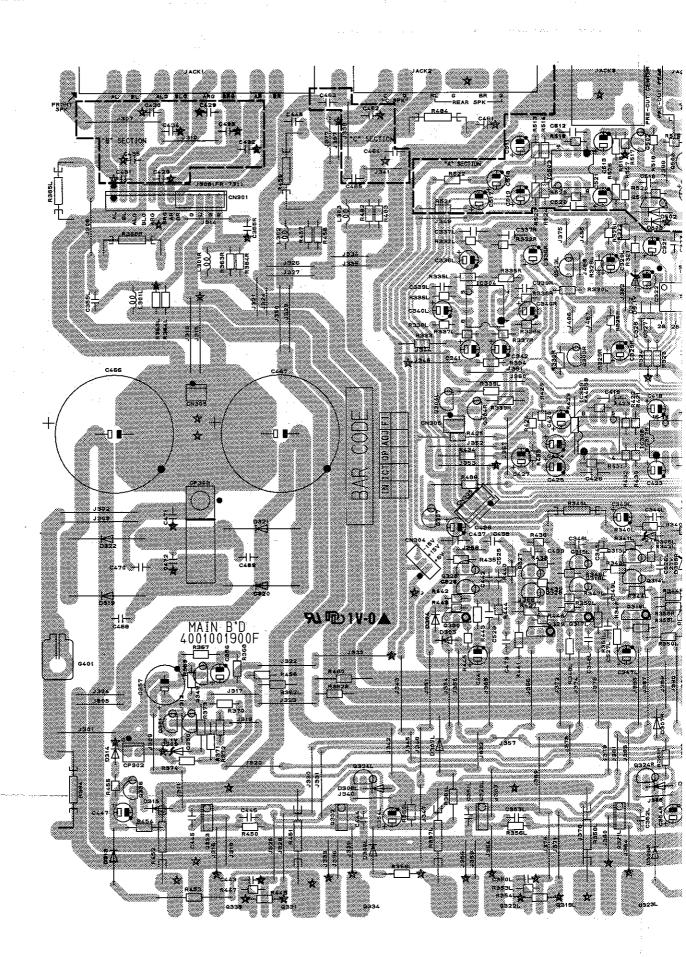


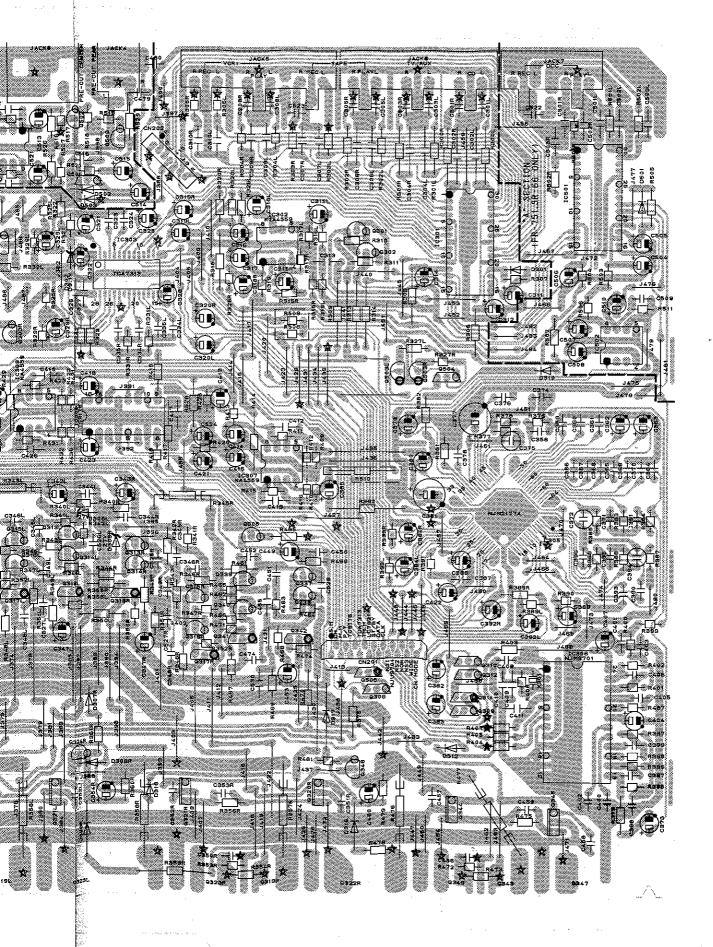
# MAIN BOARD - CIRCUIT DIAGRAM



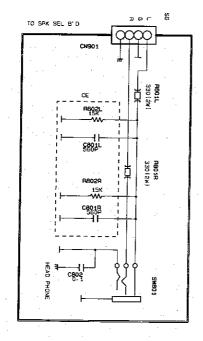


# MAIN BOARD - LAYOUT DIAGRAM

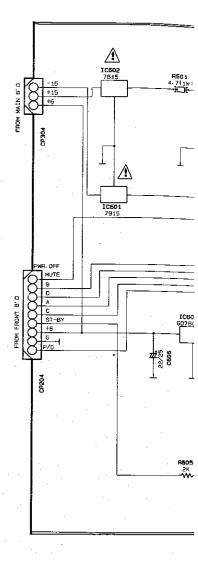




# **HEADPHONE BOARD - CIRCUIT DIAGRAM**

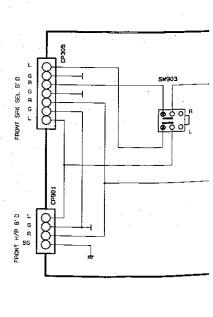


# **POWER SUPPLY BOA**

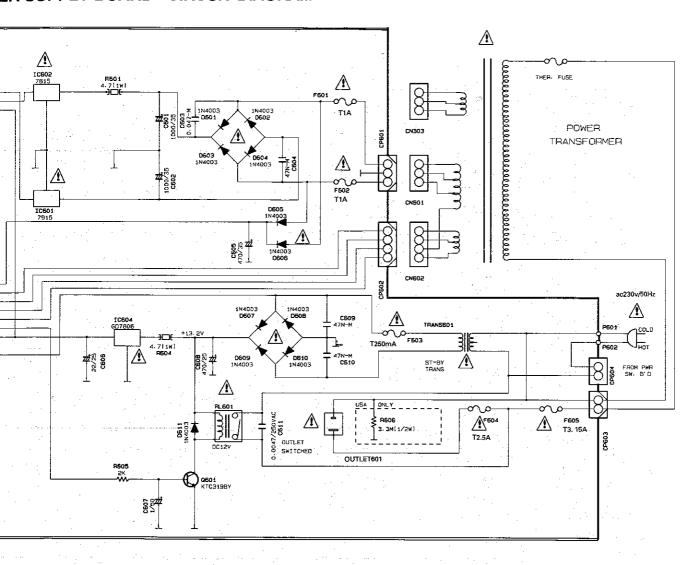


# SPAEKER BOARD - CIRCUIT DIAGRAM (FR732 ONLY)

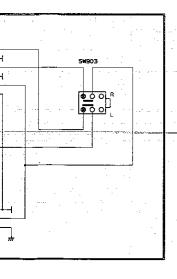
# SPEAKER SELECTOR



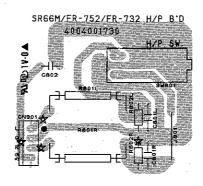
# ER SUPPLY BOARD - CIRCUIT DIAGRAM



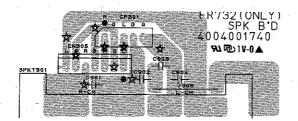
# AKER SELECTOR BOARD - CIRCUIT DIAGRAM (FR732 ONLY)



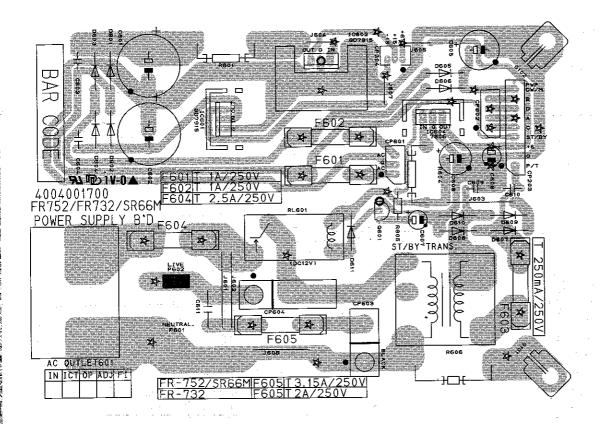
# **HEADPHONE BOARD - LAYOUT DIAGRAM**



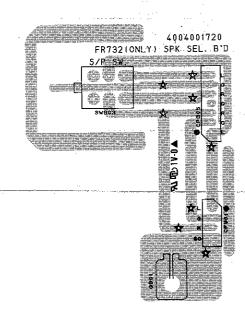
# SPAEKER BOARD - LAYOUT DIAGRAM (FR732 ONLY)



# POWER SUPPLY BOARD - LAYOUT DIAGRAM



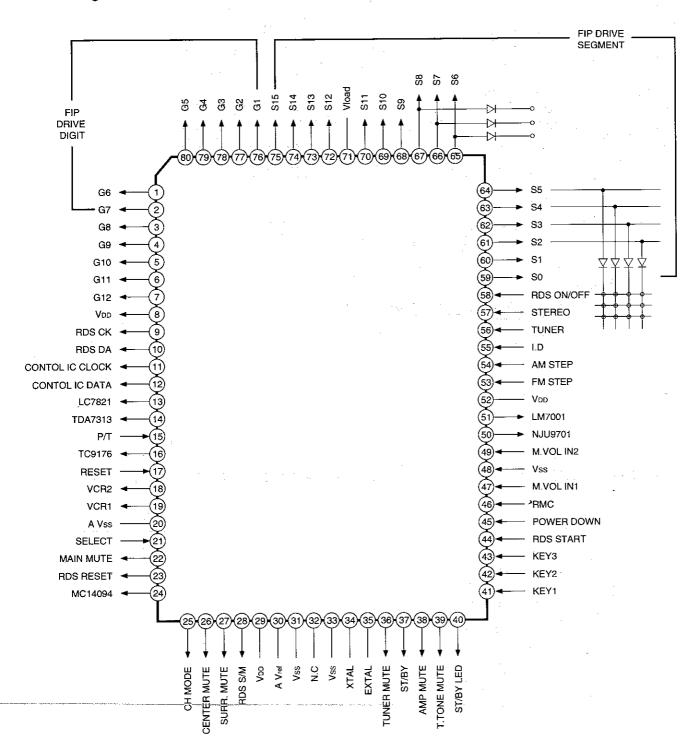
# SPEAKER SELECTOR BOARD - LAYOUT DIAGRAM (FR732 ONLY)



# SERVICE TEST PROGRAM - µPD78044AGF

# IC200 : µPD 78044AGF (8bit CMOS Microprocessor)

### 1. Pin Configuration



2. Key

KEN PII KEN

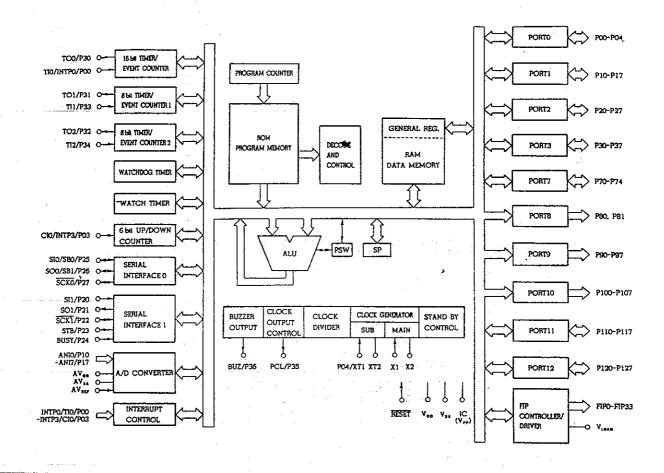
KE)

3. Blo

### 2. Key Matrix

OUT	K. SCAN2 PIN61	K. SCAN3 PIN62	K. SCAN4 PIN63	K. SCAN5 PIN64	K. SCAN6 PIN65	K. SCAN7 PIN66	K. SCAN8 PIN67
KEY IN1 PIN41	TUNING UP	AF	VCR2	TUNING PRESET	VCR1	FM	TAPE
KEY IN2 PIN42		PTY	BALANCE	RDS	DISPLAY	АМ	SURR.
KEY IN3 PIN43	KEY IN43 PIN43	TUNING DOWN	TREBLE	MEMORY	CD	AUX	-

#### 3. Block Diagram



# SERVICE TEST PROGRAM - µPD78044AGF

# 4. Input/Output Terminal Functions

Pin No.	Symbol	Description		
1~7	$G_6 \sim G_{12}$	Grid signal output for FIP.		
8	$V_{DD}$	+5V power supply.		
9/10	RDS CLK/DATA	RDS CLOCK/DATA input for LC7073.		
11/12	CLK/DATA	CLOCK/DATA output for TDA7313, TC9176, NJU9701, LC7821,		
		LM7001 and MC14094.		
13	LC7821	Chip enable output for LC7821.		
14	TDA7313	Chip enable output for TDA7313.		
15	PROTECTION	Signal input for protection.		
		If it is low, all channel mute signal levels are turned to high to protect		
		speakers and this unit.		
	·	At abnormal condition, after 3 seconds elapses, it does check protection.		
16	TC9176	Chip enable output for TC9176.		
17	RESET	Input for resetting CPU.(At "H", it is active)		
18/19	VCR IN 1	Output to select the video signal VCR1 or VCR2.		
	- /VCR IN 2	Output data for each mode is as follows.		
1		MODE VCR IN 1 VCR IN 2 REMARKS		
1		VCR 1 H L Initial settings		
ļ		VCR 2 L H		
		OTHERS $\triangle$ $\triangle$ : Previous state		
		* Last memory function is available  * Last memory function is available		
20	A.Vss	Analog ground		
21	SELECTOR	Input to select FR-732RDS.(At "H", it is active)		
22	MAIN MUTE	Output for main mute.		
		Output is low level under the following conditions.		
		When power is turned on or off.		
		2. When function is changed		
		3. When "-∞ mute signal" is received from the commander.		
23	RDS RESET	Input to select LC7073.		
24	MC14094 STROBE	Chip enable output for MC14094.		
25	CH. MODE	Output for setting of PRO-LOGIC ,3-STEREO mode.		
		According to each mode, data output is as follows.		
		MODE OUTPUT		
		3-STEREO High impedance PRO-LOGIC H		
		OTHERS L		
26	CENTER MUTE	Output for center mute.		
		Output is low level under the following conditions.		
		1. When power is turned on or off.		
		2. When center mode is turned on or off.		
		3. When center mode is switched.		
		4. When test tone mode is switched on, or when output is not directed to center.		
Ll		5. When " $-\infty$ mute signal" is received from the commander.		

Pin No.	Symbol	Description
27	SURR. MUTE	Output for surround mute.
		Output is low level under the following conditions.
		1. When power is turned on or off.
		2. When surround mode is turned on or off.
		3. When test tone mode is changed, or when output is not directed to surround.
		4. When delay time is activated.
		5. When "-∞ mute signal" is received from the commander.
28	RDS S/M	Input to detect the signal strength of RDS station.
29	V <sub>DD</sub>	+5V power supply.
30	A.Vref	Reference voltage (Connected to +5V, Not V <sub>DD</sub> )
31	Vss	Ground
32	NC	Not used !
33	Vss	Ground
34/35	XTAL/EXTAL	Input and Output for crystal oscillator.
36	TUNER MUTE	Output for tuner mute.
		Output is high level under the following conditions.
		1. When power is turned on or off.
		2. When tuner band is changed.
	***	3. When tuning up or down button is pressed.
	a ta	4 When preset button is pressed.
	• ,	5. When displayed preset number is changed during memory scan.
		6. When "-∞ mute signal" is received from the commander.
37	ST-BY	When the power is on, control data output is "H".
		When the power is off, control data output is "L" and last memory function
		is activated.
38	AMP MUTE	Output for all amplifier mute.
	•	Output is high level under the following conditions.
	•	1. When power is turned on or off.
		2. When the protection terminal's level is high.
39	T.TONE MUTE	Output for PRO-LOGIC test ton mute.
	*	Output is high level under the following conditions.
	·	When power is turned on or off.
40	ST-BY LED	Output to light up stand-by LED.(At "H", it is active)
41~43	KEY <sub>1</sub> ~KEY <sub>3</sub>	Input data of K <sub>1</sub> ~K <sub>3</sub> for key scan.
44	RDS START	Input for LC7073 data start.
45	POWER DOWN	Input for power down.(At "L", it is active)
46	RMC	Input for remote control signal (At "L", it is active)
47/49	M.VOL. IN 1/IN 2	Signal input to decrease or increase volume by volume encoder.
48	Vss	Ground
50	NJU9701	Chip enable output for NJU9701.
51	LM7001	Chip enable output for LM7001.
52	V <sub>DD</sub>	+5V power supply.

Pin No.	Symbol	Description				
53/54	FM/AM STEP	According to region, input for FM and AM. Settings are as follows.	or selecting th	ne frequency b	and and the	steps
		REGION	STEP	BAND	Pin 53	Pin 54
		USA/CANADA	100 kHz	FM	Н	Н
			10 kHz	AM		:
		EUROPE 50 kHz FM H L			Ļ	
		·	9 kHz	AM		<u></u>
55	FR-752RDS	Input for selecting FR752RDS or FR732RDS mode.				
	/FR-732RDS ID	According to each mode, data input is as follows.				
		MODE INPUT	•			
	÷	FR752RDS L		•		
	•	FR732RDS H				
56	TUNED	Input for detecting station during tuning.				
		If "L" is inputted during turning, turning stops at that frequency.				
57	STEREO	Input for lighting the STEREO indicator (At "L", it is active)				
58	RDS ON/OFF	Input for RDS on or off.(RDS on: "L", RDS off: "H")				
59~70	$S_0\!\sim\!S_{11}$	Segment signal output for FIP.				
71	Vload	-27V power supply for FIP.				
72~75	$S_{12} \sim S_{15}$	Segment signal output for FIP.				
76~80	$G_1 \sim G_5$	Grid signal output for FIP.		Grid signal output for FIP.		

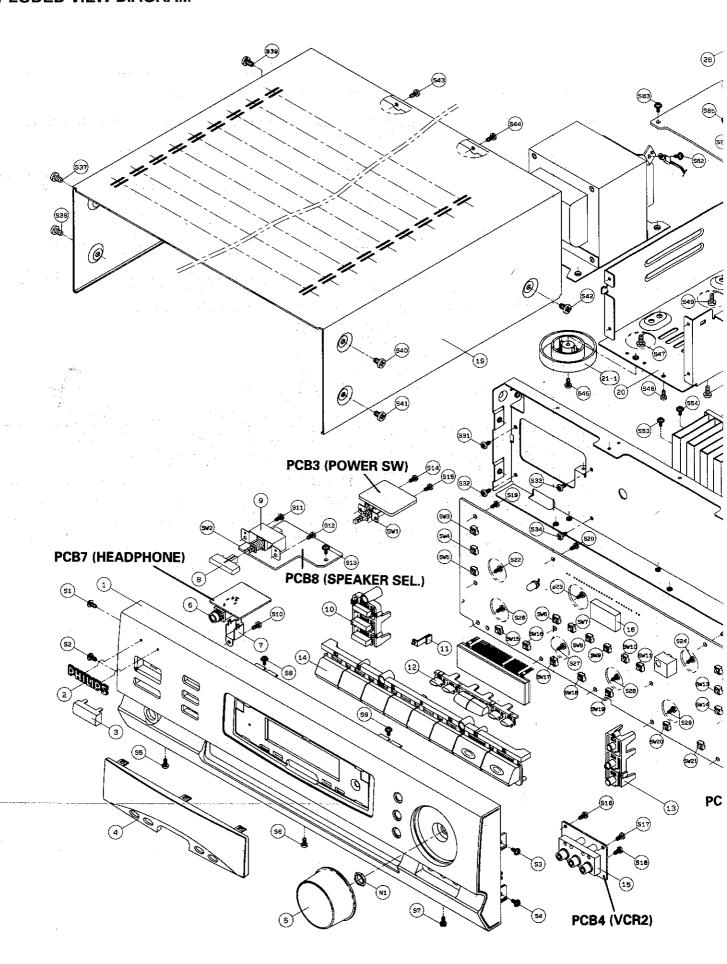




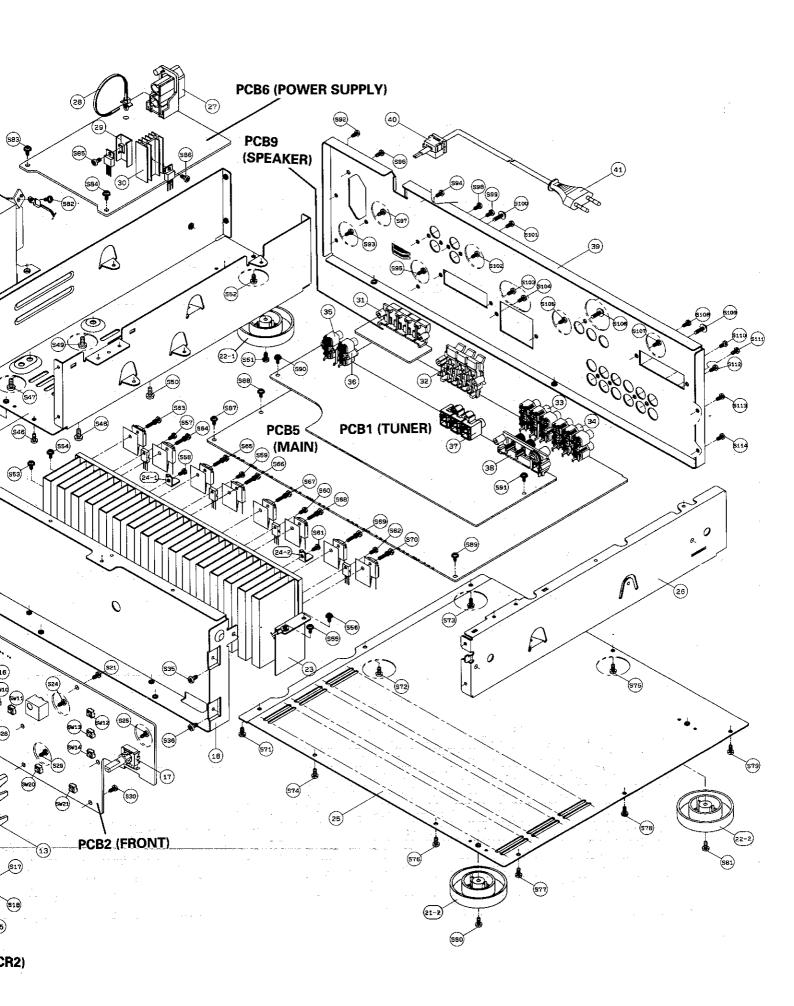




# **EXPLODED VIEW DIAGRAM**

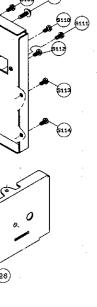


S 87 101



# **MECHANICAL PARTSLIST**

1 2	4822 459 04369 4822 459 11262	Front Panel Badge (Philips)
3	4822 410 10799	Power Button
4 ".	4822 450 10212	Window Display
5	4822 413 51525	Knob Main Volume
5	4022 410 01020	MIOD Main Volume
8	4822 410 63968	Push Button
10	4822 410 63967	Surrond Button
11	4822 381 11651	LED Indicator
12	4822 410 10801	Station Button
13	4822 413 41931	Tone Button
14	4822 410 63969	Function Button
17	4822 277 11645	Switch Encoder
21	4822 462 42232	Foot (Silver)
22	4822 462 42233	Foot (Black)
25	4822 462 10816	Cover Button
-	•	
40	4822 325 80544	Stopper Cord
41	4822 321 10527	AC Power Cord
	4822 218 10599	Remote Commander Assy
	4822 736 14707	Instruction Manual





# MAIN BOARD

R357L 4822 117 11964 Cement Rst 0.27Ω 5W Ceme			<del></del>
R357R 4822 117 11964 Cement Rst 0.27Ω 5W R358L 4822 117 11964 Cement Rst 0.27Ω 5W R451 4822 117 11964 Cement Rst 0.27Ω 5W R451 4822 117 11964 Cement Rst 0.27Ω 5W R452 4822 117 11964 Cement Rst 0.27Ω 5W R476 4822 117 11964 Cement Rst 0.27Ω 5W R477 4822 117 11964 Cement Rst 0.27Ω 5W R477 4822 117 11964 Cement Rst 0.27Ω 5W L301L 4822 157 71892 Coil Ind 0.5μH L302 4822 157 71892 Coil Ind 0.5μH L303 4822 157 71892 Coil Ind 0.5μH L303 4822 157 71892 Coil Ind 0.5μH L303 4822 242 81969 CSA2.00MG-TF01  ■■■  D301 4822 130 30621 Diode 1N4148 D302 4822 130 30621 Diode 1N4148 D303 4822 130 30621 Diode 1N4148 D304 4822 130 30621 Diode 1N4148 D305L 4822 130 30621 Diode 1N4148 D306L 4822 130 30621 Diode 1N4148 D306R 4822 130 30621 Diode 1N4148 D307L 4822 130 30621 Diode 1N4148 D307L 4822 130 30621 Diode 1N4148 D307R 4822 130 30621 Diode 1N4148 D308R 4822 130 30621 Diode 1N4148 D309 4822 130 30621 Diode 1N4148 D310 4822 130 30621 Diode 1N4148 D311 4822 130 30621 Diode 1N4148 D312 4822 130 30621 Diode 1N4148 D313 4822 130 30621 Diode 1N4148 D314 4822 130 30621 Diode 1N4148 D315 4822 130 30621 Diode 1N4148 D316 4822 130 30621 Diode 1N4148 D317 4822 130 30621 Diode 1N4148 D318 4822 130 30621 Diode 1N4148 D319 4822 130 30621 Diode 1N4148 D316 4822 130 30621 Diode 1N4148 D317 4822 130 30621 Diode 1N4148 D318 4822 130 30621 Diode 1N4148 D319 4822 130 30621 Diode 1N4148			
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L301R L302 L302 L302 L302 L303 L303 L303 L303		<b>-</b>    <b> </b> - ~~~	
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L302			· · · · · · · · · · · · · · · · · · ·
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Q304R       4822 130 63904       Trans KTD1302         Q306       4822 130 63907       Trans DTA114YS         Q307       4822 130 63904       Trans KTD1302         Q308       4822 130 63904       Trans KTD1302         Q309       4822 130 63907       Trans DTA114YS         Q310       4822 130 63907       Trans DTA114YS         Q311       4822 130 63906       Trans DTC114YS         Q312       4822 130 63906       Trans DTC114YS         Q313L       4822 130 41312       Trans KTC3200	
Q306	
Q307       4822 130 63904       Trans KTD1302         Q308       4822 130 63904       Trans KTD1302         Q309       4822 130 63907       Trans DTA114YS         Q310       4822 130 63907       Trans DTA114YS         Q311       4822 130 63906       Trans DTC114YS         Q312       4822 130 63906       Trans DTC114YS         Q313L       4822 130 41312       Trans KTC3200	
Q307       4822 130 63904       Trans KTD1302         Q308       4822 130 63904       Trans KTD1302         Q309       4822 130 63907       Trans DTA114YS         Q310       4822 130 63907       Trans DTA114YS         Q311       4822 130 63906       Trans DTC114YS         Q312       4822 130 63906       Trans DTC114YS         Q313L       4822 130 41312       Trans KTC3200	
Q309 4822 130 63907 Trans DTA114YS Q310 4822 130 63907 Trans DTA114YS  Q311 4822 130 63906 Trans DTC114YS Q312 4822 130 63906 Trans DTC114YS Q313L 4822 130 41312 Trans KTC3200	
Q310       4822 130 63907       Trans DTA114YS         Q311       4822 130 63906       Trans DTC114YS         Q312       4822 130 63906       Trans DTC114YS         Q313L       4822 130 41312       Trans KTC3200	
Q311 4822 130 63906 Trans DTC114YS Q312 4822 130 63906 Trans DTC114YS Q313L 4822 130 41312 Trans KTC3200	
Q312 4822 130 63906 Trans DTC114YS Q313L 4822 130 41312 Trans KTC3200	
Q313L 4822 130 41312 Trans KTC3200	
Q313R 4822 130 41312 Trans KTC3200	
Q314L 4822 130 41312 Trans KTC3200	
Q314R 4822 130 41312 Trans KTC3200	
Q315L 4822 130 42394 Trans KTC3198Y	
Q315R 4822 130 42394 Trans KTC3198Y	
Q316L 4822 130 42394 Trans KTC3198Y	
Q316R 4822 130 42394 Trans KTC3198Y	4
Q317L 4822 130 63903 Trans KTA1024	
Q317R 4822 130 63903 Trans KTA1024	•
Q318L 4822 130 63905 Trans KTC3206	
Q318R 4822 130 63905 Trans KTC3206	
Q319L 4822 130 63899 Trans 2SC4137	

# **MAIN BOARD**

	- Common	en de maria de la composición de la co
Q319R	4822 130 63899	Trans 2SC4137
Q320L	4822 130 63898	Trans KSC2690A-Y
Q320R	4822 130 63898	Trans KSC2690A-Y
Q321L	4822 130 63897	Trans KSA1220A-Y
Q321R	4822 130 63897	Trans KSA1220A-Y
Q322L	. 4822 130 63895	Trans 2SC3854
Q322R	4822 130 63895	Trans 2SC3854
Q323L	4822 130 63894	Trans 2SA1490
Q323R	4822 130 63894	Trans 2SA1490
Q324L	4822 130 41947	Trans KTC3198Y
Q324R	4822 130 41947	Trans KTC3198Y
Q325	4822 130 41312	Trans KTC3200
Q326	4822 130 41312	Trans KTC3200
Q327	4822 130 42394	Trans KTC3198Y
Q328	4822 130 42394	Trans KTC3198Y
Q329	4822 130 63903	Trans KTA1024
Q330	4822 130 63905	Trans KTC3206
Q331	4822 130 63899	Trans 2SC4137
Q332	4822 130 63898	
Q333	4822 130 63897	
Q334	4822 130 63895	Trans 2SC3854
Q335	4822 130 63894	Trans 2SA1490
Q336	4822 130 41947	Trans KTC3198Y
Q337	4822 130 41312	Trans KTC3200
Q338	4822 130 41312	Trans KTC3200
Q339	4822 130 42394	Trans KTC3198Y
Q340	4822 130 42394	Trans KTC3198Y
Q341	4822 130 63903	Trans KTA1024
Q342	4822 130 63905	Trans KTC3206
Q343	4822 130 63899	Trans 2SC4137
Q344	4822 130 63898	Trans KSC2690A-Y
Q345	4822 130 63897	
Q346	4822 130 63895	Trans 2SC3854
Q347	4822 130 63894	Trans 2SA1490
Q348	4822 130 41947	Trans KTC3198Y
Q349	4822 130 41726	Trans KTA1015
Q350	4822 130 41947	
Q351	4822 130 41947	
Q504	4822 130 63907	
Q505	4822 130 63906	
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Q505L	4822 130 63904	Trans KTD1302
Q505R	4822 130 63904	Trans KTD1302
- MISCEI	LANEOUS -	
JACK2	4822 265 10765	Terminal Speaker 6P
_	4822 267 41251	Jack RCA 6P
JACK5		

# **TUNER BOARD**

	<del> </del>	
	- <del></del>	
VR101	4822 117 12559	Semi-fixed Res 10K
VR102	4822 117 12561	Semi-fixed Res 100K
VR103	4822 117 12562	Semi-fixed Res 500K
VR104	4822 117 12563	Semi-fixed Res 2K
VR105	4822 117 12564	Semi-fixed Res 50K
TC101	4822 125 60228	Trimmer 20pF
TC102	4822 125 60227	Trimmer 10pF
		<b>'</b>
	— <b>I</b>	
CF101	4822 242 82235	SFE10.7MS3GH-ATF21
CF102	4822 242 82235	SFE10.7MS3GH-ATF21
CF103	4822 157 11047	Filter CFM2-450BL
CF104	4822 242 82242	Filter BFU450C4N
FE101	4822 210 10676	FM Tuner FE407-G60
L101	4822 157 71881	AM-Ant Coil
L102	4822 157 71888	
L102	4822 157 11048	AM-Osc Coil
L103		FM-Det-A Coil ~
L104	4822 157 71895 4822 157 71893	FM-Det-B Coil Inductor 20.8mH
L105	4022 137 7 1093	inductor 20.6him
L106	4822 157 71896	AM IFT Coil
L107L	4822 157 11049	Filter MPX
L107R	4822 157 11049	Filter MPX
X101	4822 242 82238	Crystal 7.2MHz
X102	4822 242 10608	Crystal 4.332MHz
X103	4822 242 10607	Resonator 4.00MGW
	<b>-</b> ₩	
D101	4822 130 30621	Diode 1N4148
D101	4822 130 30621	Diode 1N4148 Diode 1N4148
D102	4822 130 30621	Diode 1N4148 Diode 1N4148
D103	4822 130 30621	Diode 1N4146 Diode 1N4148
D106	4822 130 70044	Zener UZ5.1BSB
D100	4022 100 700 <del>44</del>	Zerier 023.100b
D107	4822 130 70044	Zener UZ5.1BSB
D108	4822 130 30621	Diode 1N4148
D109	4822 130 30621	Diode 1N4148
D110	4822 130 70044	Zener UZ5.1BSB
.D111	4822 130 30621	Diode 1N4148
1.18		

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D112	4822 130 30621	
VD101	4822 130 81197	
VD102	4822 130 81197	VC Diode KV1236Z
-		
IC101	4822 209 91027	IC LA1266G
	4822 209 91051	IC HA12016
IC103	4822 209 30152	
IC104		
IC105	4822 209 73726	IC LA1235
IC106	4822 209 15022	IC LC7073
	4822 209 33842	
Q101	4822 130 63896	Trans KTC3194Y
Q102	4822 130 41312	Trans KTC3200
Q103	and the second s	FET 2SK168DTZ
Q104	4822 130 63907	Trans DTA114YS
Q105	4822 130 63907	
Q106	4822 130 63907	
2107		Trans KTC3198Y
Q108		Trans DTA114YS
D109I	4822 130 63904	Trans KTD1302
Q109E		
Q10011 Q110	4822 130 41726	
2110 2111 ·	4822 130 41720	
Q111 Q112	4822 130 41726	·
W(I)	:	Hans MIAIZOUT
Q113 ·	4822 130 43546	FET 2SK117Y
Q114	4822 130 41947	Trans KTC3198Y
MICOE	LANEOUS -	
- MISUEL	LANEUUS -	-
	4822 265 10766	Jack RCA 2P
	4822 267 41253	Jack RCA 3P
1400	4822 267 31993	Jack Remote 2P
J 103		<i>t</i>

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C20

X20

D20 D20 D20 D20 D20

D20 D20 D20 D20 D21

D21 D21 D21 D21 D21

D21 D21 D21 D21 D22

IC20 IC20 Q20 Q20 Q20:

Q20: Q20: Q20: Q20: Q20:

# **FRONT BOARD**

C204	4822 124 80923	Electrolytic Cap 0.047F
X200	4822 242 73769	CST4.19MGW-TF01
D200	4822 130 30621	Diode 1N4148
D201	4822 130 30621	Diode 1N4148
D202	4822 130 30621	Diode 1N4148
D203	4822 130 30621	Diode 1N4148
D204	4822 130 30621	Diode 1N4148
* .		
D205	4822 130 30621	Diode 1N4148
D207	4822 130 70048	
D208	4822 130 83742	
D209	4822 130 31878	
D210	4822 130 30621	LED SLR-54URCF03
D211	4822 130 30621	Diode 1N4148
D211	4822 130 30621	Diode 1N4148
D212	4822 130 30621	Diode 1N4148
D214	4822 130 30621	Diode 1N4148
D215	4822 130 70045	Zener UZ5.6BSB
D216	4822 130 70043	Zener UZ4.3BSB
D217	4822 130 30621	Diode 1N4148
D218	4822 130 30621	Diode 1N4148
D219	4822 130 70051	LED SLR-54URCF03
D220	4822 130 30621	Diode 1N4148
	Ø -	
IC200	4822 209 15014	UPD78044AGF-210-3B9
IC201	4822 209 15015	IC MC14094
Q200	4822 130 41947	Trans KTC3198Y
Q201	4822 130 63906	Trans DTC114YS
Q202	4822 130 63906	Trans DTC114YS
Oana	4800-120 e200e	Trong DTC114VC
Q203 Q204	4822 130 63906 4822 130 63906	Trans DTC114YS Trans DTC114YS
Q204 Q205	4822 130 63906	Trans DTC114YS
Q206	4822 130 63906	Trans DTC114YS
Q207	4822 130 63906	Trans DTC114YS
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Q208	4822 130 63907	Trans DTA114YS
Q209	4822 130 63907	Trans DTA114YS
Q210	4822 130 63907	Trans DTA114YS
Q211	4822 130 63906	Trans DTC114YS
Q212	4822 130 63907	Trans DTA114YS
Q213	4822 130 63906	Trans DTC114YS
Q214	4822 130 63906	Trans DTC114YS
- MISCEL	LANEOUS -	
FL201	4822 135 00076	FL Display CM1361C
RMC201	4822 130 91529	Remote Sen KRN-34LI
SW3	4822 276 13661	Tact Switch
SW4	4822 276 13661	Tact Switch
SW5	4822 276 13661	Tact Switch
SW6	4822 276 13661	Tact Switch
SW7	4822 276 13661	Tact Switch
SW8	4822 276 13661	Tact Switch
SW9	4822 276 13661	Tact Switch
SW10	4822 276 13661	Tact Switch
SW11	4822 276 13661	Tact Switch
SW12	4822 276 13661	Tact Switch
SW13	4822 276 13661	Tact Switch
SW14	4822 276 13661	Tact Switch
SW15	4822 276 13661	Tact Switch
SW16	4822 276 13661	Tact Switch
SW17	4822 276 13661	Tact Switch
SW18	4822 276 13661	Tact Switch
SW19	4822 276 13661	Tact Switch
SW20	4822 276 13661	Tact Switch
SW21	4822 276 13661	Tact Switch

# **POWER BOARD**

	+				
D601	4822 130 31878	Diode 1N4003			
D602	4822 130 31878	Diode 1N4003			
D603		Diode 1N4003			
D604		Diode 1N4003			
D605	4822 130 31878				
D606	4822 130 31878	Diode 1N4003			
D607	4822 130 31878	Diode 1N4003			
D608	4822 130 31878	Diode 1N4003			
D609	4822 130 31878	Diode 1N4003			
D610	4822 130 31878	Diode 1N4003			
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D611	4822 130 31878	Diode 1N4003			
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	- (Lunnyour				
IC601	4822 209 91032	IC KA7915			
IC602					
IC604	4822 209 91031				
1	4822 130 41947				
- MISCE	- MISCELLANEOUS -				
F601	<u> </u>	Fuse 5T 1A 250V			
F602	<u> </u>	Fuse 5T 1A 250V			
F603	<u> </u>	Fuse 5T 250MA 250V			
F604	<u> </u>	Fuse 5T 2.5A 250V			
F605	<u>^</u> 4822 253 50166	Fuse 5T 2A 250V			
	4000 005 04504	1			
J701					
OUT60	· ·	AC Outlet 1P			
RL601	4822 280 80794	Relay SDT-SS-112DM Terminal Speaker 4P			
SPKT90		•			
SW1	4822 276 13807	Power Switch			
SW2	4822 276 13658	Push Switch 2P2T			
SW2		Jack Phone			
108WG	4822 267 31992	Standby Transf 230V			
	4822 146 31505 14822 146 10662	Power Transf 230V			
1	<u>/1</u> 4022 140 10002	LOWEL HAIRS 2004			

Note: Only those parts mentioned in the list are normal service parts.

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